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UNITED STATES GOVERNMENT

# Memorandum

TO : Director of Communications

OCE M75-415

DATE: 5 November 1975

FROM : Chief, Communications Engineering

SUBJECT: Monthly Narrative Summary Report -- October 1975

1. Based on observations by our GCS locations and confirmed by laboratory testing at [REDACTED] has experienced a partial failure. This failure appears to be a short circuit which draws excessive current lowering the bus voltage from the solar array. The battery is off line and cannot be recharged and placed back on line. The spacecraft is locked in a high-power mode but without a charged battery on line is operating with low-power output. The spacecraft produces oscillations in its downlink signal caused by dropouts in the command module and oscillations in the transmitter AGC loop. At times, the downlink signal is normal when commands are recognized by the spacecraft and operation in the low-power mode occurs. The outlook for any solution to the problem appears doubtful. At best, operation in low-power mode on various bands and bandwidths may be developed.

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25X1A9a 2. Messrs. [REDACTED] returned 22 October  
25X1A after briefing [REDACTED] in the  
SV-8 Field Introduction Program.

3. A presentation and discussion on the RS/C-523 was held this month among representatives from [REDACTED] COD, and CED. Major points of interest were: privacy of the RS/C-523 will be compatible with earlier RS/( )-523 series; it will have basically the same operational features as the RS/B-523; it will have provisions for a "higher" level of privacy if desired (via a 20-stage shift register vice a 13-stage shift register). Funds have been programmed in FY-76 for an initial inventory of 50 units.

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25X1A5a1 4. [REDACTED], has delivered the first CC-59 Carrying Case. This is part of the RS-59 components that were externally contracted several months ago. Also, 25 [REDACTED] Model PS-W1001 Power Supplies, for use with the SV-8 system, were accepted.

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5. A contract for the [REDACTED] 3061 Base Receiving System, for [REDACTED] applications with RS-803 and RS-804 Field Systems, has been let with [REDACTED]

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6. The following equipment was received during the month and submitted to QAB for evaluation: AID Model BXR-6 portable VHF repeater, RS/C-523 transceiver, WTA 100-watt VHF amplifier, rapidly deployable VHF antenna (AN-175), and a production version of the SF-1 terminal.

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7. A [REDACTED] Model 7760 Vacuum Base Plater was installed within the TSB Crystal Lab, and all Lab personnel were trained in the operation of this device. Mr. [REDACTED] Mrs. [REDACTED] conducted classes from 8 through 10 October for Lab personnel on the various phases of crystal manufacturing using the 7760 Base Plater.

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8. The last two select-o-shelves were installed and power was applied by GSA. The inventory of [REDACTED] spares, 950 line items, was relocated into one select-o-shelf.

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9. Logic tests of the software Character Sequence Recognition (CSR) have been completed. COMSEC evaluation tests began on 30 October. If the COMSEC test results are acceptable, the logic will be incorporated into the program at all three MAX sites for final evaluation.

10. Discussions continue with the [REDACTED] and the [REDACTED] regarding changes that might be incorporated in the [REDACTED] system in order for it to comply with the majority of AFT operational/technical requirements.

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11. [REDACTED] presented a gross breakdown of the DATEX overrun charges to Agency personnel on 8 October. In furtherance of actual cost determination, the DATEX contracting officer requested a detailed audit of project records. On 28 October, [REDACTED] and OC-E personnel met to discuss some DATEX system problems. As a result of the discussion and review of system status and requirements, [REDACTED] was asked to provide on-site software support to stabilize system operation.

12. The ARS-IV preacceptance testing was successfully conducted in Dallas on 1 October. Both the ARS-IV system and the installation team arrived in [REDACTED] on 31 October to commence the ARS installation at [REDACTED]. The ARS-V site

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25X1A6b

25X1A survey was conducted [REDACTED] on 15 October and a meeting  
25X1A of the ARS working group was held on 23 October to coordinate  
[REDACTED] and OC-E interests in the ARS-V  
system.

13. On-site testing of the MAX and ACT line interface programs in CDS was successfully completed in October. Renovation work in the Cable Secretariat, temporarily halted due to a sheet metal workers' strike, resumed after settlement of the strike.

25X1A6b 14. Production-line versions of the [REDACTED] time diversity HF modems were brought in for inspection. Delivery of the units for the [REDACTED] tests is scheduled for late December. The ACC error-correction units are undergoing final testing and are expected to be delivered in late November. 25X1A5a1

25X1A5a1 15. The tandem switch contract was amended to include the addition of 11 ports to the system. These ports will be used for trunk expansion. On 23 October, a visit was made to [REDACTED] Systems to review the latest schedule and progress being made. It was evaluated that [REDACTED] would not meet the latest system delivery schedule (19 November), and they might request an additional 30-day extension. 25X1A5a1

16. Perturbations associated with the [REDACTED] data circuit (OPMUX) have been identified and modifications to correct several data control problems are being tested. A summary of the problems, solutions, and their operational consequences will be prepared upon completion. 25X1A6b

17. The "Low Noise" SG-75B modification and alignment procedure have been accepted. Shipment of the units from the vendor has been resumed.

18. Conversion of the [REDACTED] shielded enclosure equipment to MIL-STD-188C was completed and the Headquarters team returned on 10 October. Shielded enclosure air conditioning retrofits were completed in [REDACTED], and a new, shielded enclosure installation was begun in [REDACTED] during the month. 25X1A6b  
25X1A6a  
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25X1C

25X1A 20. Installation of the new 700 KW generator at [REDACTED] is in progress. The contractor has provided interim generator capability during the hook-up and testing of the new generator. 25X1A

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25X1C

21. The [REDACTED] satellite was again reported by [REDACTED] as fully operational on 7 October. However, since that date and continuing through the month, there has been one major and numerous minor unscheduled spin-ups which have resulted in several hours of SKYLINK outage. It now appears that this periodic interruption to satellite availability will continue indefinitely. The installation of the SC-1A terminal at [REDACTED] was completed and SC-1A installations at [REDACTED] were started.

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Distribution:

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Orig - D/CO; DD/[REDACTED] OC-EXA; OC-P&B; OC-IC (Archives)  
1 - OC-O; OC-O/D  
1 - OC-S; OC-CS